Figure 1

Internet
106

HTTP

Web Server

Server

108

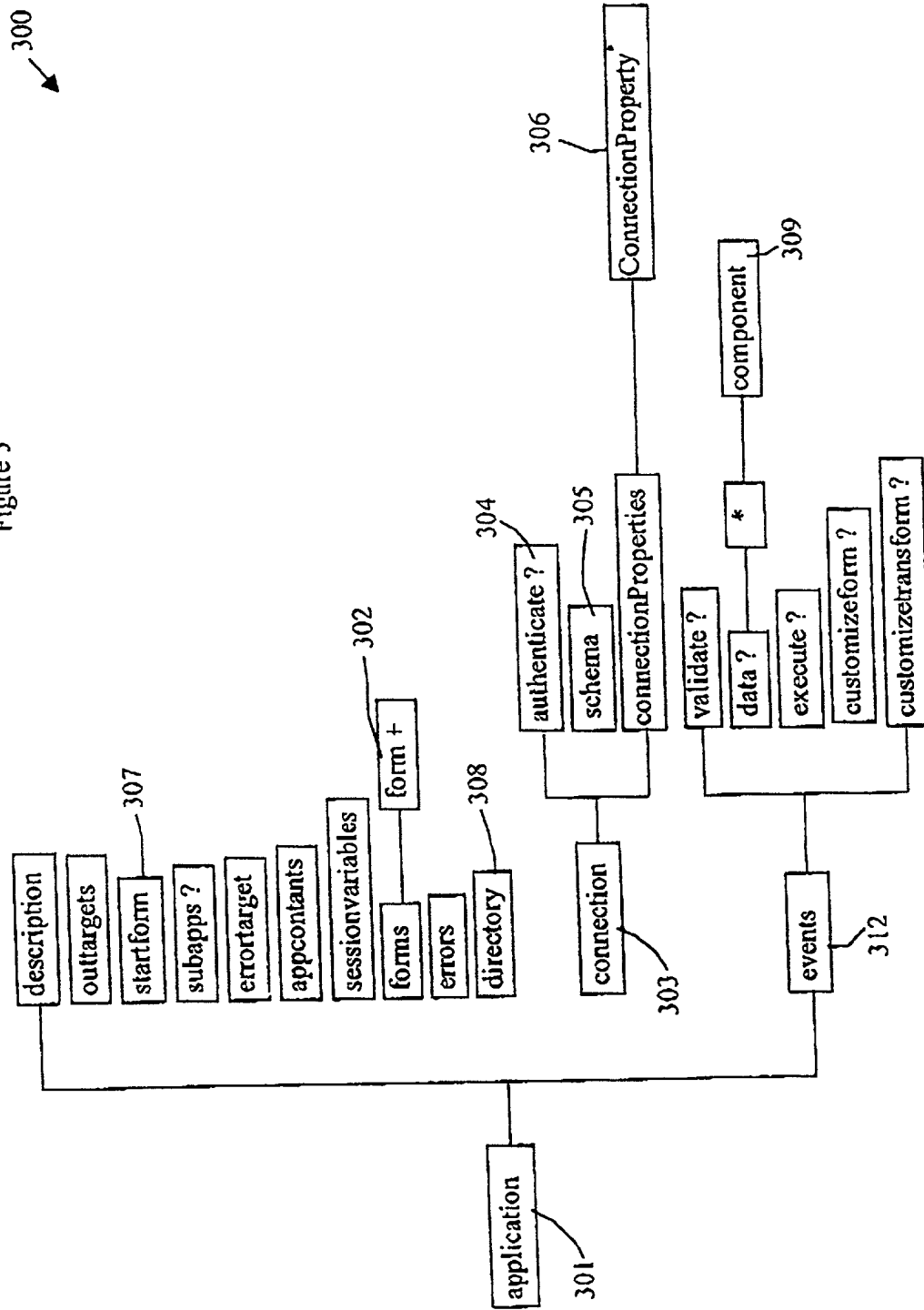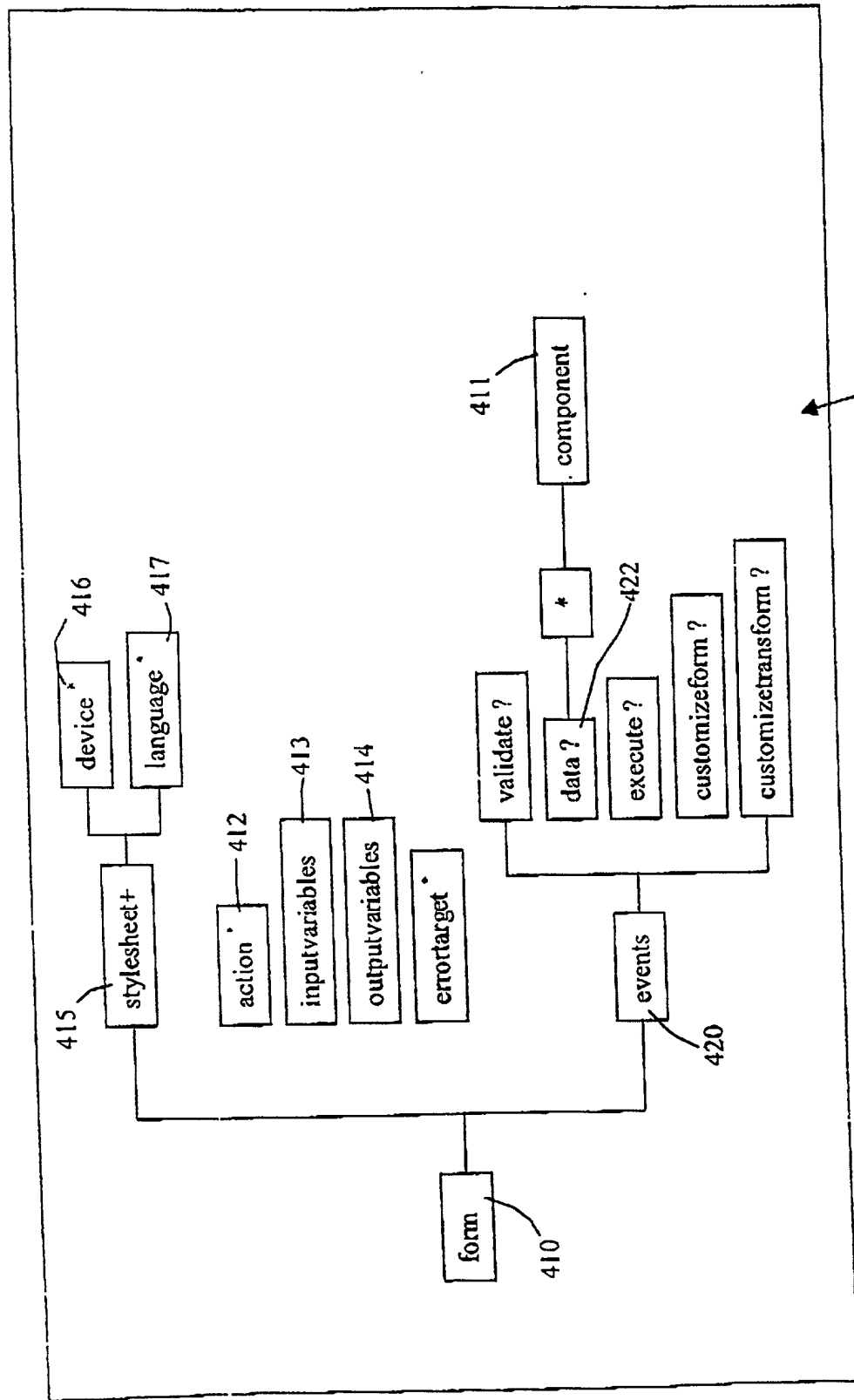Portal

106

Translate

114

100

Request

Client

112

100

102

Figure 2

Figure 3

Figure 4

Figure 5

Figure 6

Figure 7

Transport

Set Session Information — 738

Set Variables - — 739

Executive

Loads Application - — 740

Application

Finds / Loads Form — 742

741

Form

Set Actions - — 742

Set Directory Info - — 743

Call SUDS — 744

SUDS

Call Native Components — 745

Return to Device — 750

Transform if Required — 749

Call XSL — 748

Match Stylesheets — 747

Set Appropriate Data — 746

Figure 8 (a)

802 Entry

804 Entry

806 Menu

808 Select

810 Display

812 Select

814 Select

816 Entry

818 Display

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<application usecookies="false" id="{F6681A6F-FB7C-4901-855C-0S791DDE8DC8}"
  securevariables="false">
  <description version="1" name="MQBanking" />
  <outtargets />
  <startform totargetid="UserID" />
  <subapps />
  <errortarget totargetid="UserID" />
  <properties>
    <variable default="209.23.23.23" name="ServerIP" />
  </properties>
  <sessionvariables>
    <variable name="Session" />
  </sessionvariables>
  <forms>
    <form targetid="UserID" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Password" name="OK" />
      <inputvariables />
      <outputvariables>
        <variable name="UserID" />
      </outputvariables>
      <events />
    </form>
    <form targetid="Password" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Main" name="OK" />
      <inputvariables>
        <variable name="UserID" />
      </inputvariables>
      <outputvariables>
        <variable name="Session" />
      </outputvariables>
      <events />
    </form>
    <form targetid="Main" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Account" name="Account Balance" />
      <action totargetid="Bill Payment" name="Bill Payment" />
      <action totargetid="Transfer" name="Account Transfer" />
      <inputvariables />
      <outputvariables />
      <events />
    </form>
    <form targetid="Account" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Details" name="OK" />
      <inputvariables />
      <outputvariables>
        <variable name="AccountID" />
      </outputvariables>
```
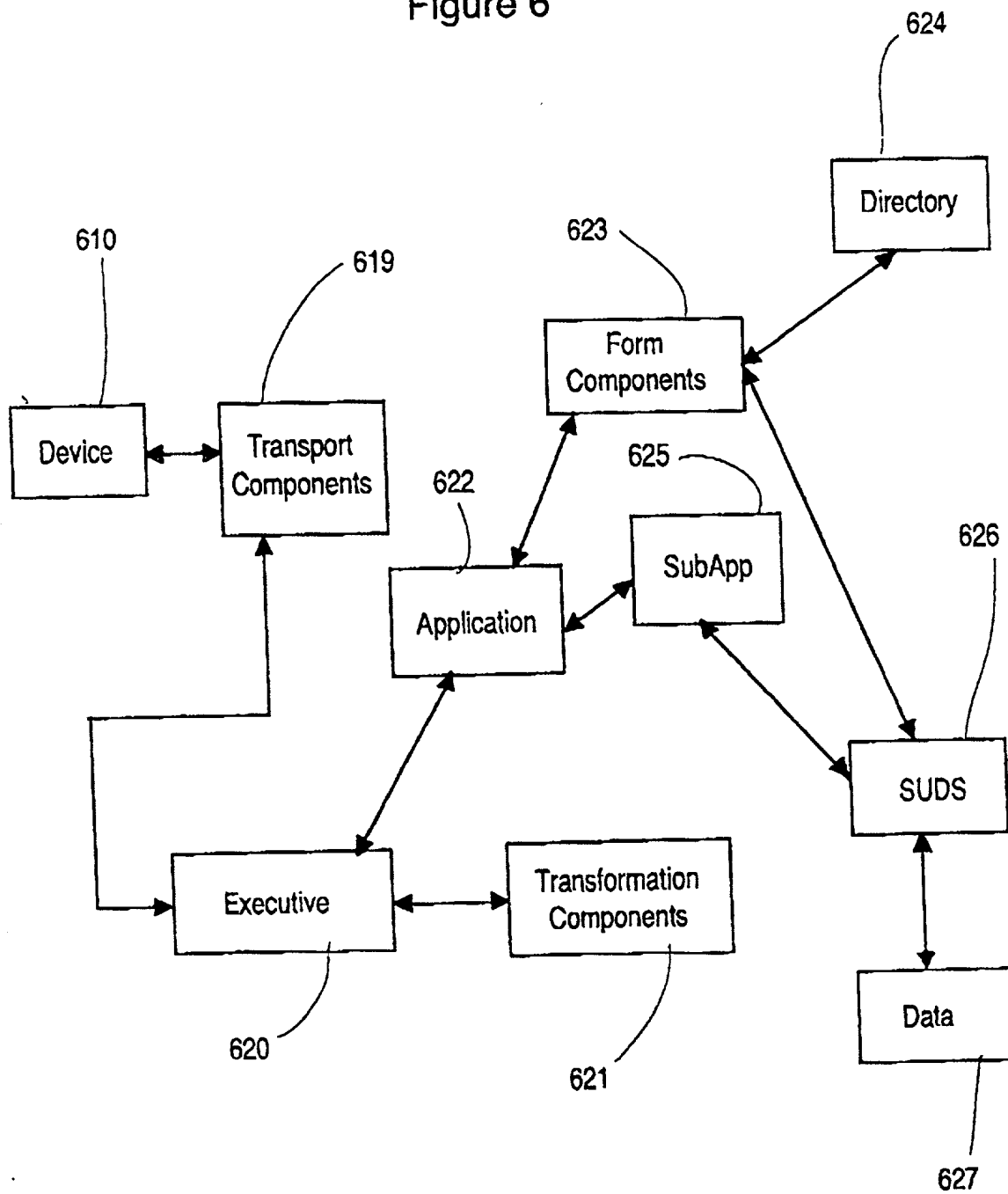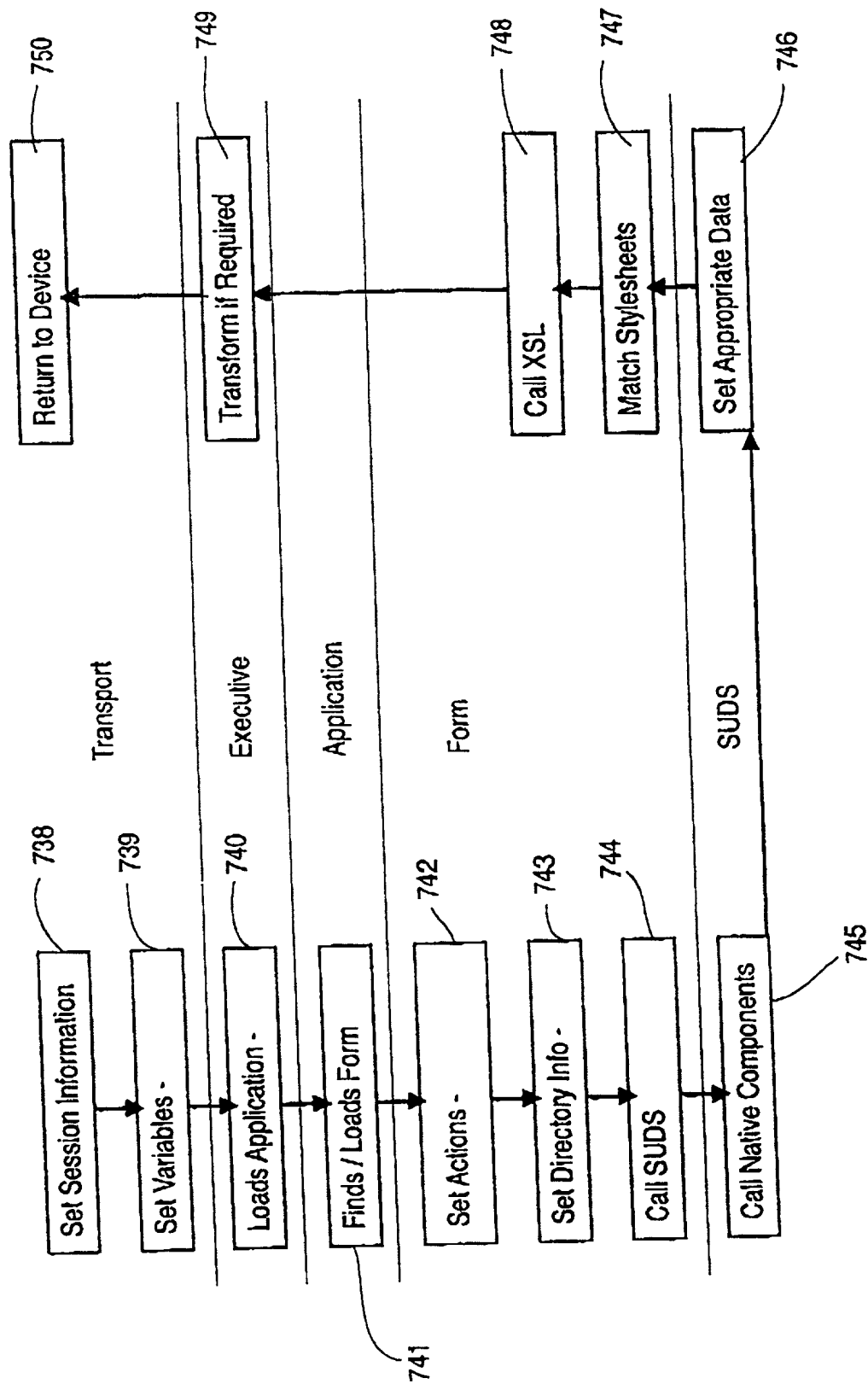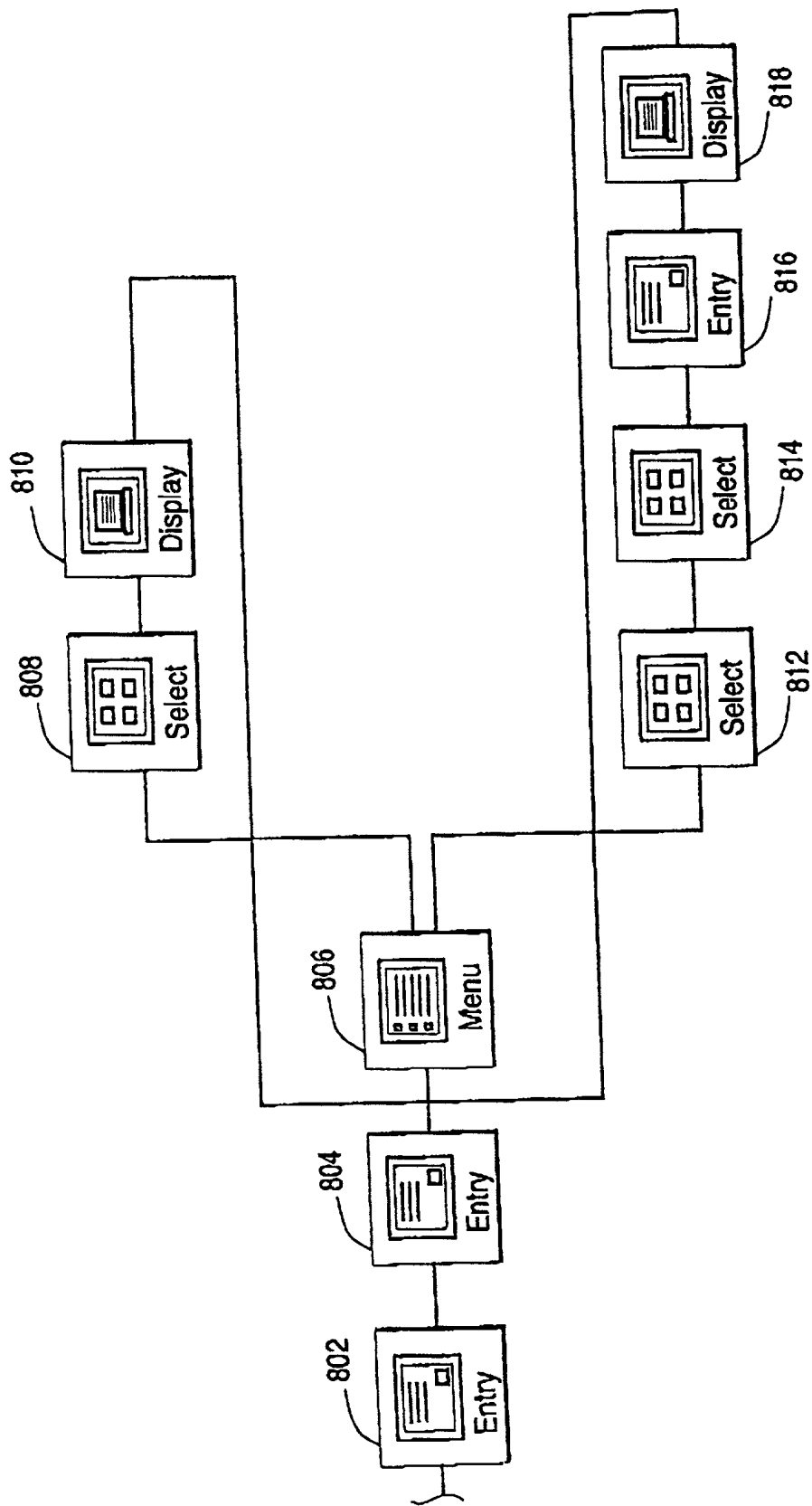
Figure 8(b)

```xml
<events />
</form>
<form targetid="Details" includeheaders="false >
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="OK" />
    <inputvariables>
        <variable name="AccountID" />
    </inputvariables>
    <outputvariables />
    <events />
</form>
<form targetid="Bill Payment" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Bill" name="OK" />
    <inputvariables />
    <outputvariables>
        <variable name="AccountID" />
    </outputvariables>
    <events />
</form>
<form targetid="Bill" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Amount" name="OK" />
    <inputvariables>
        <variable name="AccountID" />
    </inputvariables>
    <outputvariables>
        <variable name="BillID" />
        <variable name="AccountID" />
    </outputvariables>
    <events />
</form>
<form targetid="Amount" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Confirm" name="OK" />
    <inputvariables>
        <variable name="BillID" />
        <variable name="AccountID" />
    </inputvariables>
    <outputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />
        <variable name="Amount" />
    </outputvariables>
    <events />
</form>
<form targetid="Confirm" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="Cancel" />
    <inputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />
```

Figure 8(c)

```xml
        <variable name= Amount" />
      </inputvariables>
   . <outputvariables>
       <variable name="AccountID" />
       <variable name="BillID" />
       <variable name="Amount" />
     </outputvariables>
     <events />
   </form>
 </forms>
 <errors />
 <events />
</application>
```

Figure 8(d)

```xml
<xml>
<dataresults>
  <data name="source1">
    <RECORDS>
      <RECORD>
        <Blair PK="1">172-32-1176</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>White</LastName>
        <FirstName>Johnson</FirstName>
      </RECORD>
      <RECORD>
        <Blair PK="1">213-46-891</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Green</LastName>
        <FirstName>Marjorie</FirstName>
      </RECORD>
      <RECORD>
        <Blair PK="1">238-95-7766</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Carson</LastName>
        <FirstName>Cheryl</FirstName>
      </RECORD>
      <a>
        <RECORD>
          <Blair PK="1">238-95-7766</Blair>
          <Test1 PK="1">1</Test1>
          <Test2 PK="1">2</Test2>
          <Test3 PK="1">3</Test3>
          <LastName>Carson</LastName>
          <FirstName>Cheryl</FirstName>
        </RECORD>
      </a>
      <a>
      <b>
          <RECORD>
            <Blair PK="1">238-95-7766</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>Carson</LastName>
            <FirstName>Cheryl</FirstName>
          </RECORD>
      </b>
      </a>
    </RECORDS>
```

Figure 9(a)

```
</data>
. <data name="source2">
  - <RECORDS>
    - <RECORD>
        <Blair PK="1">aaaaaa</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>White</LastName>
        <FirstName>Johnson</FirstName>
      </RECORD>
    - <RECORD>
        <Blair PK="1">bbbbbbb</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Green</LastName>
        <FirstName>Marjorie</FirstName>
      </RECORD>
    - <RECORD>
        <Blair PK="1">cccccc</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Carson</LastName>
        <FirstName>Cheryl</FirstName>
      </RECORD>
    - <a>
      - <RECORD>
          <Blair PK="1">ddddddd</Blair>
          <Test1 PK="1">1</Test1>
          <Test2 PK="1">2</Test2>
          <Test3 PK="1">3</Test3>
          <LastName>Carson</LastName>
          <FirstName>Cheryl</FirstName>
        </RECORD>
      </a>
    - <a>
      - <b>
        - <RECORD>
            <Blair PK="1">eeeeeeee</Blair>
            <Test1 PK="1">1</Test1>
            <Test2 PK="1">2</Test2>
            <Test3 PK="1">3</Test3>
            <LastName>Carson</LastName>
            <FirstName>Cheryl</FirstName>
          </RECORD>
        </b>
      </a>
    </RECORDS>
  </data>
</dataresults>
```

Figure 9(b)

```
<actions>
  <action formatstring="" actionid="OK" querystring="?
    _SQRSIGN=A&_SQAPPID={877444A1-8D9E-4248-A664-
    6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
    4D2C-B2D8-49FE88D1B13A}&EmployeeID=$EmployeeID" />
  </actions>
<dictionary>
  <variable />
  <variable />
</dictionary>
</rml>
```

Figure 9(c)

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
- <xsl:template match="/">
  - <wml>
    - <head>
        <meta name="FormType" content="SQSelectForm" />
        <meta name="ListMethod" content="numeric" />
      </head>
    - <card>
        <xsl:attribute name="title">qwe</xsl:attribute>
      - <p>
        - <select>
            <xsl:attribute name="title">qwe</xsl:attribute>
            <xsl:attribute name="name">asd</xsl:attribute>
          - <xsl:for-each select="/rml/dataresults/data
            [@name='source2']//RECORD">
            - <option>
              - <xsl:attribute name="value">
                  <xsl:value-of select="Blair" />
                  z1z
                  <xsl:value-of select="Test1" />
                  z1z
                  <xsl:value-of select="Test2" />
                  z1z
                  <xsl:value-of select="Test3" />
                </xsl:attribute>
              - <xsl:attribute name="title">
                  <xsl:value-of select="LastName" />
                  ,
                  <xsl:value-of select="FirstName" />
                  ,
                  <xsl:value-of select="/rml/data
                  [@name='source1']/RECORDS/RECORD/Blair" />
                </xsl:attribute>
                blah blah blah
              </option>
            </xsl:for-each>
          </select>
        </p>
      - <xsl:for-each select="/rml/actions//action">
        - <do>
            <xsl:attribute name="type">accept</xsl:attribute>
          - <xsl:attribute name="label">
              <xsl:value-of select="@actionid" />
            </xsl:attribute>
          - <go>
            - <xsl:attribute name="href">
                <xsl:value-of select="@querystring" />
              </xsl:attribute>
            </go>
          </do>
        </xsl:for-each>
      </card>
```

Figure 10(a)

```
    </wml>
  </xsl:template>
</xsl:stylesheet>
```

Figure 10(b)

```wml
<wml>
  <head>
    <meta name="FormType" content="SQSelectForm" />
    <meta name="ListMethod" content="numeric" />
  </head>
  <card title="Select Account">
    <p>
      <select title="Select Account" name="HoldingsAccountID">
        <option value="1" title="Acct 10314">Acct 10314</option>
        <option value="2" title="Acct 11345">Acct 11345</option>
      </select>
      <br />
    </p>
    <do type="accept" label="OK">
      <go href="?_SQRSIGN=A&_SQAPPID={8D360BDF-E570-45E9-BEC1-
        4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-
        11D3-9E34-0090273EFC3B}
        &HoldingsAccountID=$(HoldingsAccountID)
        &UserID=246531&Session=1" />
    </do>
  </card>
</wml>
```

Figure 11

Figure 12

Error

A very bad error happened

| OK |